

ZoneFlex™ 2925

Smart Wi-Fi 802.11g Multimedia Access Point



The First Centrally Managed 802.11g Smart Wi-Fi Access Point with Mesh Support

The Ruckus ZoneFlex 2925 is the first centrally-managed, multimedia 802.11g Wi-Fi access point (AP) that delivers advanced features and functionality not available in any low-end consumer AP or high-end WLAN system.

Deployed individually, or as a system centrally managed by the Ruckus ZoneDirector™ Smart WLAN family of controllers, the ZoneFlex 2925 can be deployed with or without Ethernet cabling. Support for Ruckus Smart Mesh Networking streamlines costly and complex deployment headaches, eliminating the need to run Ethernet cabling to every access point. This minimizes operational overhead, making the ZoneFlex 2925 ideal for hotels, schools, airports and enterprises everywhere.

The ZoneFlex 2925 is also perfect for hot spot operators that want to deliver business-class hot-spot services — such as voice over Wi-Fi, IP-based video or secure enterprise access.

Each ZoneFlex 2925 integrates Ruckus-patented BeamFlex™ smart antenna technology that enables consistent, high performance, extended coverage and multimedia support as it automatically tunes itself to adapt to constant changes in the environment. This means fewer APs, more satisfied users, and a cost-effective system that can be installed anywhere by wireless novices.

A web-based wizard allows any computer user to configure the ZoneFlex 2925 through the Ruckus ZoneDirector™ — creating a secure and sophisticated WLAN in a matter of minutes. The Ruckus ZoneFlex 2925s simply plugs into any Ethernet network and automatically discovers the ZoneDirector. No RF tuning. No client configuration. A true plug-and-play multimedia WLAN that is ready to use, stable and high performance.

BENEFITS

Breakthrough user performance and density

Advanced antenna array and Quality of Service (QoS) software delivers 20 concurrent voice calls, 100 simultaneous data users or 20 Mbps of guaranteed user throughput throughout a 5,000 square foot facility.

No RF expertise required

Smart antenna array eliminates AP placement issues and minimizes adjacent AP interference while ZoneDirector controls dynamic channel assignment and power management.

Smart Mesh Networking streamlines costly and complex deployment

Integrated SmartMesh Networking technology automates deployment, eliminates running Ethernet cables to every Smart Wi-Fi access point.

Extended coverage means fewer APs

Directional, high-gain antennas dynamically combine to give hotspot operators and enterprises two- to four-times the coverage over typical consumer and enterprise APs.

Optimized for voice over Wi-Fi

Specialized antenna design, dynamic signal path selection and precision QoS software optimize delay-sensitive, high-density Voice-over-Wi-Fi (VoFi) applications. Power Save (UAPSD) maximizes handset battery life.

Proven video streaming support

The Ruckus smart antenna system and video QoS already proven for real-time IP video streaming applications deployed by over 100 IPTV operators worldwide.

"IT lite" configuration and management

Web-based wizard enables configuration of multiple APs across the entire WLAN in minutes. Once configured, the WLAN manages itself.

Enables business class hotspot services

New revenue opportunities for operators such as (VoFi) services, extended enterprise access, IP video applications and tiered service classes.

Ultra High Performance and Cost Effective

Based on the IEEE 802.11g standards, the Ruckus ZoneFlex 2925 supports up to 54 Mbps of data capacity. What differentiates the ZoneFlex 2925 is the integration of patented Ruckus BeamFlex Smart antenna technology that automatically adapts to the RF environment by steering Wi-Fi signals on the best path, while rejecting interference, in real time.

Each Ruckus ZoneFlex 2925 comes equipped with a state-of-the-art, high-gain smart antenna array designed to deliver unsurpassed density and range. Supporting up to 100 simultaneous data users or 20 concurrent voice calls, while its superior coverage reduces the number of APs required, the Ruckus ZoneFlex 2925 delivers the industry's most cost-effective 802.11g Wi-Fi solution.

Simple Deployment

The self-optimizing Ruckus BeamFlex technology allows the Ruckus ZoneFlex 2925 to be installed without site survey and RF planning. Plug any Ruckus ZoneFlex 2925 into an Ethernet and the AP automatically discovers the Ruckus ZoneDirector and self-configures.

The Ruckus ZoneFlex 2925 and ZoneDirector system seamlessly integrate with existing security systems such as firewalls, intrusion detection systems and authentication servers, including RADIUS and ActiveDirectory. An internal authentication database lets enterprises implement user authentication without the expense and complexity associated with external authentication servers.

Simple Configuration

Ruckus ZoneFlex 2925 APs are automatically configured by the Ruckus ZoneDirector. A network of APs can be centrally configured quickly and simply through the ZoneDirector's web-based wizard.

Smart Mesh Networking Increases Flexibility, Reduces Costs

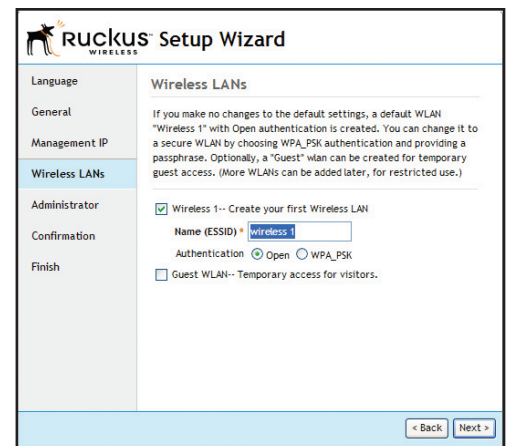
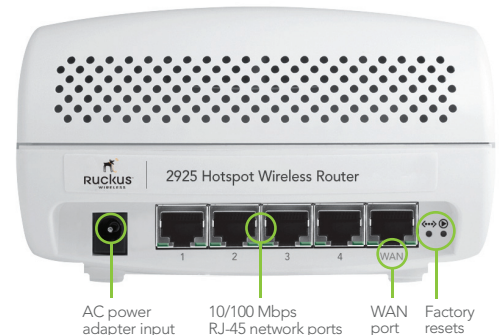
Ruckus Smart Mesh Networking enables self-organizing and self-healing wireless meshing. Smart Mesh Networking eliminates the need to run Ethernet cabling to every Smart Wi-Fi AP, allowing administrators to simply plug ZoneFlex APs into any power source, then walk away. All configuration and management is delivered through the ZoneDirector Smart WLAN platform. Patented Ruckus Smart Wi-Fi technology provides extended range and dynamic signal controls. Smart Mesh Networking minimizes inter-nodal hops that might degrade performance, automatically adapts Wi-Fi connections between nodes to environmental changes, and requires deployment of fewer APs.

Automatic User Security

Used with the Ruckus ZoneDirector, the Ruckus ZoneFlex 2925 provides first-of-its-kind automatic, robust user security enforcement. Provisioning secure wireless access often involves configuring all the client devices with a wireless setting such as an SSID and encryption key. Typically organizations use a single pre-shared key for all employees. This is a security problem and an ongoing operational headache.

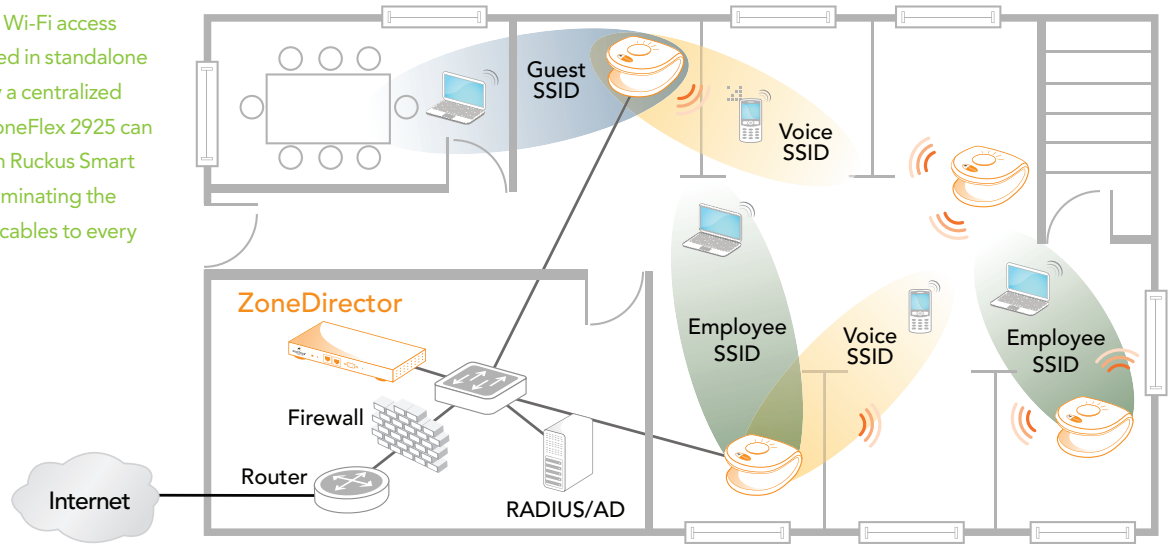


A special smart antenna array ideally suited for high-density hot spot environments delivers up to 20 dB of interference rejection, 64 unique omni and directional antenna patterns and 5 dBi peak gain. An advanced expert control system optimizes signal path selection, throughput and coverage.



An intuitive web-based wizard in the Ruckus ZoneDirector enables quick and easy configuration of each ZoneFlex 2925 in a matter of minutes.

ZoneFlex 2925 Smart Wi-Fi access points can be deployed in standalone mode or managed by a centralized ZoneDirector. The ZoneFlex 2925 can also be deployed with Ruckus Smart Mesh Networking, eliminating the need to run Ethernet cables to every access point.



Ruckus Dynamic PSK™ on the Ruckus ZoneDirector and ZoneFlex 2925 automates this process to assure integrity of the user authentication system. First-time users simply plug their computers into the LAN and specify a URL that directs them to a captive portal for a one-time authentication. Upon authentication, the ZoneDirector automatically configures the user's system with the designated SSID and a unique, dynamically-generated encryption key. The key can be removed automatically upon expiration, or manually when the user or their device is no longer trusted.

Business-Class, Multimedia Hotspots

The ZoneFlex 2925 lets operators build a new class of hotspots and offers multimedia hotspot services. Equipped with a dual-polarized directional antenna system, the ZoneFlex 2925 delivers stable connectivity to any Wi-Fi-enabled handheld device and flicker-free support for concurrent video streams and voice over Wi-Fi calls.

Differentiated Services with Multiple SSIDs

Up to eight discrete SSIDs can be configured within each Ruckus ZoneFlex 2925, each with unique broadcast, QoS, security and management parameters assigned. This enables hot-zone operators to easily offer tiered services to different user or traffic types. Enterprises can use this features to differentiate guest, contractor and employee access policies or to segment different traffic types.

Dynamic RF Management

A Ruckus ZoneFlex WLAN is inherently RF-coordinated as BeamFlex automatically steers Wi-Fi signals toward each receiver, and away from noise, in real time. And unlike omni antennas, BeamFlex does not constantly radiate in all directions, thereby minimizing the chances of adjacent AP interference. As a last resort, the Ruckus ZoneDirector can dynamically exert control over the RF channel assignment and transmit power levels on the ZoneFlex APs, to further optimize the RF environment without manual intervention.

FEATURES

- Integrated smart antenna array with over 64 unique patterns designed for triple-play services
- Automatic interference avoidance, optimized for high-density environments
- Two- to four-times extended range and coverage
- 20 Mbps of guaranteed user throughput to any corner of a 10,000 sq. ft facility
- Four queues per station
- Four BSSIDs with unique QoS and security policies
- WEP, WPA-PSK, 802.1X
- Smart Mesh Networking (with ZoneDirector)
- Zero-IT and Dynamic PSK (with ZoneDirector)
- Admission control/load balancing (with ZoneDirector)
- Captive portal and guest accounts (with ZoneDirector)
- RADIUS and Active Directory support (with ZoneDirector)
- Advanced RF management (with ZoneDirector)
- Two 10/100 Mbps Ethernet ports allowing for daisy chaining of APs and connection of local devices
- Ceiling or wall mountable
- Kensington lock support
- Limited lifetime warranty coverage

Specifications

PHYSICAL CHARACTERISTICS

POWER	- External power adapter - Input: 110-240V AC - Output: 12V DC, 1A
PHYSICAL SIZE	14.2cm (L), 12.2cm (W), 7.5cm (H)
WEIGHT	200 grams
ANTENNA	Internal software-configurable antenna array with directional and omni high-gain elements that provide up to 64 unique antenna patterns
ETHERNET PORTS	5 ports, auto MDX, auto-sensing 10/100Mbps, RJ-45
LED DISPLAY	Power/status, Ethernet status, wireless status, wireless network quality indicator
ENVIRONMENTAL CONDITIONS	- Operating Temperature: 32°F (0°C) - 104°F (40°C) - Operating humidity: 15% - 95% non-condensing

PERFORMANCE AND SUPPORTED CONFIGURATIONS

CONCURRENT STATIONS	- Up to 100 (for Open, WEP or WPA-AES) - Up to 22 (for WPA-TKIP)
TARGET UDP THROUGHPUT	15-20 Mbps sustainable throughput for a 5,000 sq. foot (460m²) public area
SIMULTANEOUS Vo-Fi CLIENTS	Up to 20

TRAFFIC MANAGEMENT AND QUALITY OF SERVICE

CLASSES OF SERVICE	Voice, video, best effort and background
SOFTWARE QUEUES	Four per station
802.11e	Supported
AUTOMATIC TRAFFIC CLASSIFICATION	Automatic type of service tagging for multicast video packets
RATE LIMITING	Supported
VLAN SUPPORT	802.1Q
HEURISTIC CLASSIFICATION	Supported

MANAGEMENT

CONFIGURATION	Web user interface, CLI (Telnet), SSH HTTP/S, SNMP statistics interface. TR-069 through FlexMaster
STATISTICS	LAN, wireless and associated stations (accessible via Web UI)
AUTO AP SOFTWARE UPDATES	FTP or TFTP, remote auto available

WI-FI

STANDARDS	802.11b/g
SUPPORTED DATA RATES	54,48,36,24,18,12,11,5.5,2,1 Mbps
CHANNELS	- US/Canada: 1-11 - Europe (ETSI X30): 1-13 - Japan X41: 1-13
AUTO CHANNEL SELECTION	Supported
RF POWER OUTPUT	- Max transmit power 23 dBm - Country-specific power settings are configurable
TRANSMIT POWER CONTROL	Supported
BSSID	Up to eight
POWER SAVE	Supported
WIRELESS SECURITY	- WEP, WPA-PSK, WPA-TKIP, WPA2 AES, 802.11i - Authentication via 802.1X with the ZoneDirector, local authentication database, support for RADIUS and ActiveDirectory
CERTIFICATIONS	- Australia, Canada, Chile, China, Columbia, Ecuador, Europe, Hong Kong, India, Mexico, New Zealand, Philippines, Saudi Arabia, Singapore, Thailand, UAE, U.S. - WEEE/RoHS compliance - Wi-Fi alliance certification

Product Ordering Information

Model	Description
ZoneFlex 2925 802.11g Smart Wi-Fi Access Point	
901-2925-XX01	5-port centrally managed multimedia AP

PLEASE NOTE: When ordering you must specify the destination region by indicating -US, -EU, -UK, -UN, -AU, -UU or -IN instead of XX.

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